

Processing and Agro-Resources Unit

(EA 7519)



Aims and issues addressed

- Production and processing of raw plant materials
- Analyzing the health impact of raw materials processing following early exposure
- Functionalization and construction of new bio-based polymer complexes
- Deconstruction of native and processed agro-resources and analysis of new functionalities

Mission

Processing and making use of whole crops with a view to sustainable development, from research into their growth mechanisms to analysis of their properties and functions when they reach end use, whether this use is a food application (PETALES team) or a non-food application (VAM²IN team).

Keywords

Innovative processing techniques • Inflammatory digestive diseases • Maillard reaction • Microbial ecosystems • Animal and human nutrition • Decontamination • Biomass chemistry • Chemometrics • Physical and chemical characterization • Eco-design • End-of-life phase of bioproducts • Formulation • (Bio)process engineering • Bio-based materials • Anaerobic digestion



Technical resources

Physical and chemical characterization and application of materials (AgroRtech center) • Cell and Molecular Biology facility • Biodegradation facility • Analytical Chemistry facility • Multiphysical Characterization facility • Process Engineering facility • Methanogenesis facility • Microbiology facility • Ozone facility • Poultry facility • Cattle farm • Agricultural Machinery Chair • Plant Breeding Chair

Partners

Academic partners:

Picardy University • Normandy University • University of Picardy Jules Verne • University of Technology of Compiègne • Artois University • GIS SoliMéthas • GIS Ozonation • ENTPE • ENSA • ISEL • ESITC • INERIS • INPG • INRA Narbonne • INSA Lyon • INSA Toulouse • IRSTEA Rennes • UBS • URCA • University of Lille • University of Lorraine • University of Arkansas • University of Bath • FMARS Group • SFR Norvège • SFR Condorcet

Institutional partners:

Région Hauts-de-France • Région Normandie • Communauté d'Agglomération du Beauvaisis • Pôle Métropolitain de l'Oise • Chambres d'Agriculture Hauts-de-France & Normandie • Chambres d'Agriculture Oise, Somme, • Coopératives (AGRIAL, CAPSEINE), • Pôles de compétitivité (AXELERA, CEREALVALLEE, IAR, MOVE'O, NSL) • Club Biogaz ATEE • ANRT • IFSTTAR

Industrial partners:

Easymetha • CultiMer France Associated Producers • PAREX GROUP • ECOPERTICA • SIAAP • SOURCES • CMI Proserpol



The unit

37

Scientific managers
(Associate professors and researchers)

11

Scientific staff
(Research engineers and technicians)

8 Doctoral students

2 Post-doctoral fellows



2 complementary teams:

PETALES – food processing and effects on health

Dr. Thierry Aussenac
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VAM2IN – developing innovative molecules and materials from agro-resources

Dr. Nathalie Leblanc
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